

## **CHAPTER 3**

### **METHODOLOGY**

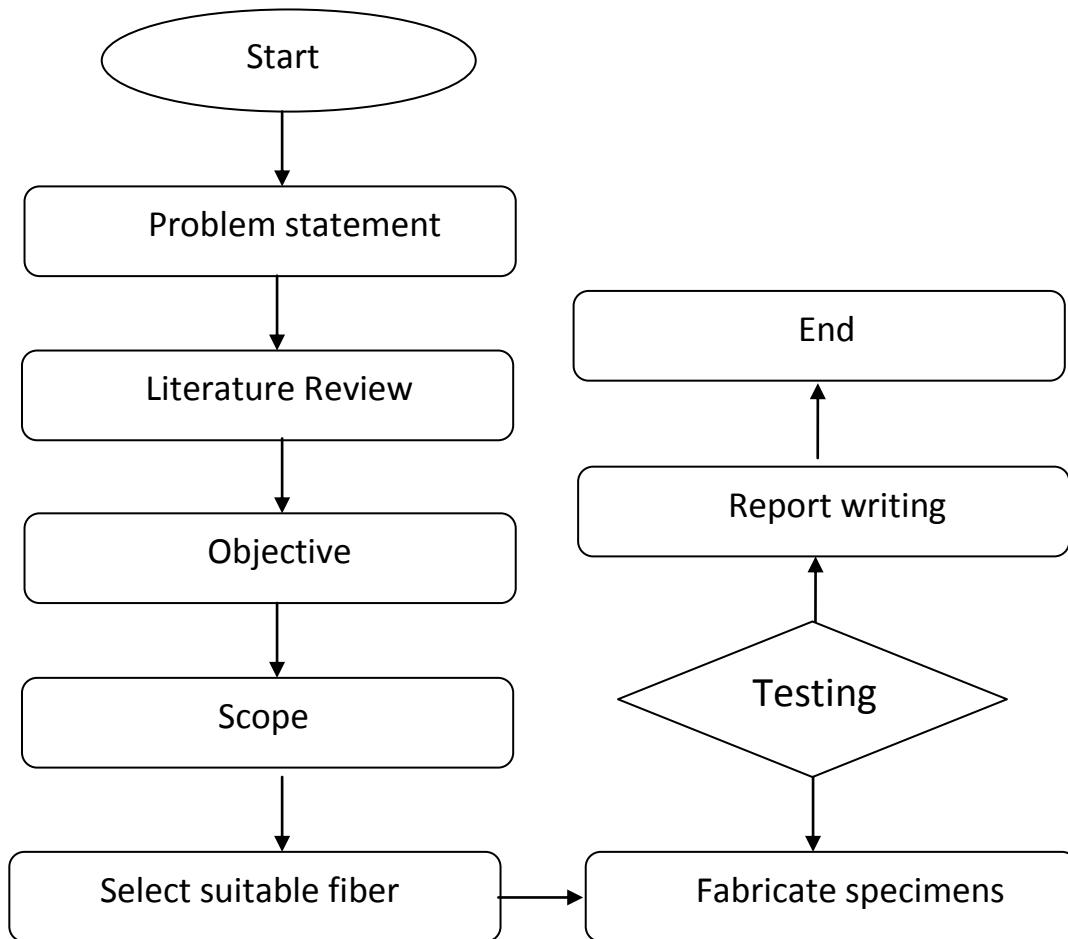
#### **3.1 INTRODUCTION**

Chapter 3 will covers process in methodology throughout this project experiment progress. The content in this chapter includes project flow chart, select sugar palm fiber and experiment process including immersed the fiber, measure weight, measure diameter, make the difference concentration of alkaline sodium hydroxide solution, cut the fiber, and tensile test.

Project planning is important to determine the best and excellent result for the project. The flow chart.

#### **3.2 FLOW CHART**

Figure 3.1 illustrate the project flow chart



**Figure 3.1:** Flow chart

The project starts problem statement. Problem statement is important to identify the way point of this project. Literature review is focus on the project background. This part covers about the existing product in current market and their specifications. Project objective is then identified. Project objective is the step what to achieve throughout the project.

The next step will continue with identifying the project scope. Project scope is the boundaries of research or project. This scope will helps in designing project and during the fabrication process. The scope will control the range of the project.

Next step select suitable or almost same width fiber form the bundle fiber. Later, project fabrication is step the where the specimens and test the tensile strength test. Fabrication process include cutting and attachment.

The last step is report writing include result and discussion. Result of project when the analysis has been done. Discussion of the project is about the analysis whether the is suitable to be used in industries to reduce dependent on glass fiber and carbon fiber and also to used natural fiber. Other improvement that should be done to the end product.